PATENT COOPERATION TRI .TY

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT			
	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER See paragraph 2 belo		A	
l			International filing date (c 06.08.2004	date (day/month/year) Priority date (day/month/year) 22.08.2003		AVAILABLE	
1	rnational Patent Clas 1J13/04, A23L1/0		both national classification	and IPC			
	licant NISCO A/S			1 1/2 1		200	
1.	This opinion co	ontains indication	ons relating to the follo	owing items:		~	
	☑ Box No. I	Basis of the op	pinion				
İ	☐ Box No. II	Priority	·				
	☑ Box No. III	Non-establishr	ment of opinion with rega	ard to novelty, inventi	ve step and industrial applicability		
ļ	☐ Box No. IV	Lack of unity o					
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industria applicability; citations and explanations supporting such statement				novelty, inventive step or industrial tement		
	☐ Box No. VI	Certain docum					
	☐ Box No. VII		s in the international app				
	□ Box No. VIII	Certain observ	ations on the internation	al application			
2.	FURTHER ACTI	ION					
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
	For further options, see Form PCT/ISA/220.						
3.	3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA: Authorized Officer							
	Furonean F	Patent Office			*Landine Control of the Control of t		
	D-80298 M	lunich	356 d	Popa, M	٠ .)))	
		9 2399 - 0 Tx: 5236 9 2399 - 4465	oso epmu đ	Telephone No. +49 89	2399-7829	aino - Azriora	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

01568661 International application No.

PCT/GB2004/003406

(AP20 Rec'd PCT/PTO 17 FEB 2006

	Dan	. M.	1. Doning of the principal			
	Box	No.	l Basis of the opinion			
1.	With the	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
		langu	opinion has been established on the basis of a translation from the original language into the following page , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).			
2.	With	rega essar	ard to any nucleotide and/or amino acid sequence disclosed in the international application and y to the claimed invention, this opinion has been established on the basis of:			
	a. type of material:					
		Ја	sequence listing			
] ta	ble(s) related to the sequence listing			
b. format of material:						
] in	written format			
] in	computer readable form			
	c. tin	ne of	filing/furnishing:			
] cc	ontained in the international application as filed.			
] file	ed together with the international application in computer readable form.			
	Ε) fu	rnished subsequently to this Authority for the purposes of search.			
3.		nas b copie	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.			
4.	Additional comments:					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/003406

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:							
	the entire international application,						
⋈	claims Nos. 7,8,16,25-27						
be	because:						
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):						
⊠	the description, claims or drawings (indicate particular elements below) or said claims Nos. 7,8,16,25-27 are so unclear that no meaningful opinion could be formed (specify):						
	see separate sheet						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
⊠	no international search report has been established for the whole application or for said claims Nos. 7,8,16,25-27						
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
	the written form		has not been furnished				
			does not comply with the standard				
	the computer readable form		has not been furnished				
			does not comply with the standard				
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.						
\boxtimes	See separate sheet for further details						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/003406

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4-7,20-22,24-27,30,35

No: Claims

1-3,8-19,23,28,29,31-34,36-40

Inventive step (IS)

Yes: Claims

No: Claims

4-7,20-22,24-27,30,35

Industrial applicability (IA)

Yes: Claims

1-40

No: Claims

2. Citations and explanations

see separate sheet

10/568661

JAP20 Rec'd FG 779 17 FEB 2006 International application No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/GB2004/003406

Re Item III.

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. The application does not meet the requirements of Article 6 PCT, because claims 5, 7, 8, 10, 16, 23 and 25-27 are not clear.
- 1.1 The terms any synthetic or natural hydrophobic polymer, any mixture of oppositely charged hydrocolloids, any combination of hydrocolloids and a solubility-reducing agent, any water-insoluble microparticules, any synthetic or natural water-soluble polymer and any water-insoluble solid microparticules, used in claims 5, 7, 10, 16, 23 and 26 are vague and unclear and leave the reader in doubt as to the meaning of the technical features to which they refer, thereby rendering the definition of the subject-matter of said claims unclear, Article 6 PCT.
- 1.2 Claims 8, 25 and 27 relate to a product and its associated method in which the following parameters are employed:
 - Storage temperature
 - Glass transition temperature
 - Sintering temperature and
 - Gelling temperature

While these parameters are known in the art, the skilled person would have to test every parameter, as indicated in the claims, against each compound and mixtures thereof, in order to compare the results with prior art. Said operation is almost impossible to be carried out in the claimed extent as the compounds indicated in the scope of the affected claims are unnumbered, e.g. any water-insoluble particles (claim 27).

Therefore, the search has been carried out to the extent indicated by the examples or concrete compounds as indicated in the description. The same applies *mutatis mutandis* to the rest of the aforementioned parameters.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US-A-5 580 573 (KYDONIEUS AGIS ET AL) 3 December 1996

D2: US-A-5 204 029 (MORGAN ROBERT ET AL) 20 April 1993

D3: CH 509 098 A (NCR CO) 30 June 1971

- 2. This application has been found to have deficiencies that contravene the PCT requirements.
- **2.1.** The following syntagms are considered by the substantive examiner to be merely descriptive features, thus having a non-limiting effect upon the scope of the affected claims: *suitable* and *active*.
- 2.2. Many claims contain additional features in form of optional elements. This is the case of the features introduced by *preferably* and *such as*. The attention of the applicant is drawn to the fact that these features are considered <u>entirely</u> optional and not taken into account in establishing the novelty and/or the inventive step issues.
- 2.3. Most of the claims contain various alternatives, e.g. sets of features introduced by or, which may lead to non-unity issues. Moreover, this style of claiming brings unclarities on the scope of the claims and on the essential features of the alleged invention. The requirements of Art. 6 PCT and Rule 6.3 and 6.4 PCT shall be observed.
- 3. Present application does not meet the requirement of Art. 33(1) PCT because the subject-matter of independent claims 1, 14, 36, 37 and 39 is not novel in the sense of Art 33(2) PCT.
- **3.1.** Document **D1** discloses in c. 3 l. 4-36 and c. 4 l. 50 c. 5. l. 45 a microcapsule comprising a hydrophobic shell comprising at least 3 liquid cores, each core comprising at least one active ingredient from the list in c. 5. The subject-matter of claim **1** is therefore not new.

- 3.2. Document D1 discloses in c. 6 l. 18-56 a process for preparing microcapsules comprising the steps of providing an aqueous phase comprising the active agent, melting the hydrophobic phase to a fluid form, combining the two into a W/O emulsion, processing the resulted product by spray-drying into the desired microcapsules. The subject-matter of claim 14 is therefore not new.
- **3.3.** The product claimed in claim **36** is already anticipated (see §3.1 and §3.2) by D1, as it directly results from a known process. The subject-matter of claim **36** is therefore not new.
- **3.4.** The use according to claim **37** is employed in **D1** (c. 1 l. 12-14). The subject-matter of claim **37** is therefore not new.
- **3.5.** The use according to claim **39** is employed by **D2** (c. 3 I. 7-24). The subject-matter of claim **1** (the microcapsules) is disclosed in c. 2 I. 39 c. 3 I. 55 of the same document **D2**. The subject-matter of claim **39** is therefore not new.
- 3.6. Dependent claims do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, as their features are obvious and/or anticipated by aforementioned documents.
- **4.** The applicant is requested to file new claims which take account of the above comments.

To meet the requirements of Rule 5.1(a)(ii) PCT, the documents **D1-D3** should be identified in the description and its relevant contents should be indicated. The applicant should ensure that it is clear from the description which features of the subject-matter of the new independent claim 1 are known from those documents.

The applicant has not provided reasons why the claim should not be in the two-part form.

The applicant is requested to file amendments by way of replacement pages in the manner stipulated by Rule 66.8(a) PCT. In particular, fair copies of the amendments should be filed preferably in triplicate.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

"PCT/GB2004/003406

Moreover, the applicant's attention is drawn to the fact that, as a consequence of Rule 66.8(a) PCT the examiner is not permitted to carry out any amendments under the PCT procedure, however minor these may be.

In order to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2)(b) PCT, the applicant is requested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (see also Rule 66.8(a) PCT).

If the applicant regards it as appropriate these indications could be submitted in handwritten form on a copy of the relevant parts of the application as filed.

* * *

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
□ OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.